NC/QC/W-11/2019-20/CP-C1 Date: 05-08-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**182 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.68 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.93 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-11/2019-20/CP -PCC1 **Date: 05-08-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	100.00	100.00
20mm	**97.20**	85-100	95 - 100
10mm	**34.05**	0 - 20	25 - 55
4.75mm	**8.60**	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.90**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.65**	60-95	75-100	85-100	
01.18	**62.40**	30-70	55-90	75-100	
600.mic	**49.10**	15-34	35-59	60-79	
300.mic	**15.80**	5-20	8-30	12-40	
150.mic	**7.55**	0-10	0-10	0-10	

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NC/QC/W-11/2019-20/CP -C2 Date: 09-08-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.83 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.61 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-11/2019-20/CP -FA1 **Date: 09-08-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	**Percentage Passing**	Specification as Per IS: 383-1970(Reaffirmed 2002) **Percentage Passing**			Remarks
		Zone-I	**Zone-II**	**Zone -II**	
04.75	**98.65**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.90**	60-95	75-100	85-100	
01.18	**61.05**	30-70	55-90	75-100	
600. mic	**53.20**	15.34	35-59	60-79	
300.mic	**20.70**	5-20	8-30	12-40	
150.mic	**6.15**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	**Test Conducted**	**Sample**	**Results**	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.90 %**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/W-11/2019-20/CP -CA1 **Date: 09-08-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.65**	85-100	90 - 100
10 mm	**51.20**	0 - 20	25 - 55
4.75 mm	**6.90**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	**Requirements** as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**23.15 %**	Not to exceed 25 %
2.	Crushing value	**26.70 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/W-11/2019-20/CP -CB1 **Date: 20-08-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-08-19	20-08-19	07	22500	305	13.56	**13.11**
	002	"	"	"	"	280	12.44	
	003	"	"	"	"	300	13.33	

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NC/QC/W-11/2019-20/CP -CB1a

Date: 10-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-08-19	10-09-19	28	22500	405	18.00	**17.48**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	385	17.11	

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NC/QC/W-11/2019-20/CP -K1

Date: 21-08-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.28	21.98	**22.76**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.56		
3	003	3.33	22.74		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	5.23	**5.08**
2	002	4.95	
3	003	5.07	

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NC/QC/W-11/2019-20/CP -K2

Date: 24-08-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Community Property maintenance including Parks in Ward No -11 Kuvempunagara..}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.40	23.65	**22.54**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.29	22.21		
3	003	3.26	21.78		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.10	**4.70**
2	002	4.89	
3	003	5.11	

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